

Abstract

The invention relates to monodispersable, optionally
5 magnetic particles containing one or more metals,
optionally, protected by a secondary treatment with
air, having an adjustable average particle size of
between 2 and 15 nm and a narrow distribution of
10 particle size with a standard variance of 1.6 nm at the
most. The invention also relates to a method for the
production of said materials. Said materials are used
in an isolated form or dispersed in a solution inter
alia as a sealing medium against dust and gas in
15 magnetic fluid sealing systems (liquid O-ring) for the
lubrication and bearing of rotating shafts (magnetic
levitation bearings), for the magneto-optical storage
of information and additionally, for the magnetic
marking of cells and the separation thereof in
20 biological samples or for the local application of
medicaments.